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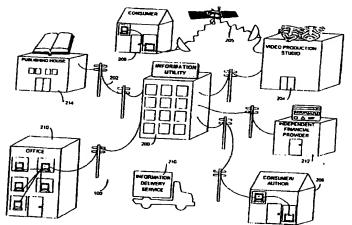
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With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of

- (88) Date of publication of the international search report: 19 June 1997 (19.06.97)
- (54) Title: SYSTEMS AND METHODS FOR SECURE TRANSACTION MANAGEMENT AND ELECTRONIC RIGHTS PROTEC-



(57) Abstract

The present invention provides systems and methods for electronic commerce including secure transaction management and electronic rights protection. Electronic appliances such as computers employed in accordance with the present invention help to ensure that information is accessed and used only in authorized ways, and maintain the integrity, availability, and/or confidentiality of the information. Secure subsystems used with such electronic appliances provide a distributed virtual distribution environment (VDE) that may enforce a secure chain of handling and control, for example, to control and/or meter or otherwise monitor use of electronically stored or disseminated information. Such a virtual distribution environment may be used to protect rights of various participants in electronic commerce and other electronic or electronic-facilitated transactions. Secure distributed and other operating system environments and architectures, employing, for example, secure semiconductor processing arrangements that may establish secure, protected environments at each node. These techniques may be used to support an end-to-end electronic information distribution capability that may be used, for example, utilizing the "electronic

^{• (}Referred to in PCT Gazette No. 52/1996, Section II)

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	see page 23, last paragraph ~ page 24, paragraph 1	21,22, 29,30, 103-108, 127-130, 223,224, 233,234, 237,238, 241-244, 504,506
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	US 5 319 705 A (HALTER BERNARD J ET AL) 7 June 1994 see abstract; figures 2,4,12	7-12, 17-20, 72-77, 133,134, 147-152, 155-158, 265-268, 298,300, 363,396
		21,22, 109,110, 115, 203-206, 213,214, 223,224, 237,238, 265, 302-305,
	see column 4, line 33 - column 6, line 24 see column 24, line 33 - column 25, line 13	394,395
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	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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A	see abstract; figure 1 see page 1134, left-hand column, line 25 - page 1135, right-hand column, line 27	29,30, 103-108, 127-130, 233,234, 241-244, 504,506
(EP 0 128 672 A (GALE IDA DENNIC) 10	31-38, 153,154, 219,220, 231,232, 370-374, 381-384, 494-497, 501-503, 511,512
	December 1984 see abstract; figure 1 see page 11, line 1 - line 18	78,79, 139-142 80,81,
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	see column 2, line 9 - column 3, line 26	109,110, 115, 302-305, 394,395
	EP 0 565 314 Å (FISCHER ADDISON M) 13 October 1993 see abstract	245,246, 253,254 243,265
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Y	MAPPING NEW APPLICATIONS ONTO NEW TECHNOLOGIES, ZURICH, MAR. 8 - 10, 1988, no, 8 March 1988, PLATTNER B;GUNZBURGER P, pages 45-52, XP000215989 SIUDA K: "SECURITY SERVICES IN TELECOMMUNICATIONS NETWORKS" see the whole document		153,154, 207,208, 225-228, 370-374, 381-384, 494-497, 501-503	
	EP 0 399 822 A (HEWLETT PACKARD CO) 28 November 1990 see the whole document GB 2 264 796 A (IBM) 8 September 1993 see the whole document		31-38, 55-58, 95,153, 154,231, 232 87-89	
	WO 92 22870 A (ICL DATA AB) 23 December 1992		93-98, 277-280, 306-318, 342-349, 375-379, 385, 387-393	
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Category *	Citation of document, with indication, where appropriate, of the relevant passages		
 		Relevant to claim No.	
А	EP 0 421 409 A (IBM) 10 April 1991 see the whole document	225-228, 245,246, 253,254	
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International Application No. PCT/US 96/ 02303

FURTHER INFORMATION CONTINUED FROM	
THE THE PROPERTY OF THE PROPER	
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Inventio	n Claims	Subject matter
1.	1-12,17-26,29,30,61-65,68 69,72-77,99-108,127-130, 133-138,147-152,155-158, 199,200,219-222,233,234, 243,244,255-268,294-301, 363,364,396,404,504,506	Solving problems related to: Distributing electronic information to a rightful destination using a different virtual distribution
2.	13-16	Solving problems related to: Automating electronic processes.
3.	31-39,42-45,55-58,153,154, 203-208,213-218,223-228, 231,232,237,238,241,242, 370-374,381-384,487-489, 500,505,507-512	Solving problems related to:
4.	40,41,46-54,259-262,402	Solving problems related to: identification of principals or principals' properties
5.	59,60,66,67,70,71,235,236, 239,240,401	Solving problems related to: Handling electronic currency.
6.	78-81.139-144,197,525	Solving problems related to: Tamper-resistant containers.
7.	82-84,109-116,127-132, 273-276,302-305,394,395, 494-497,501-503	Solving problems related to: Audit or administrative information.
8.	85,86	Solving problems related to: Human readable interfaces.
9.	87-92,201,202,209,210,282, 283	Solving problems related to: Event or task processing.
	93-98,277-280,306-318, 342-349,375-379,385, 387-393	Solving problems related to: Checking component integrity or validity.
11.	17-122	Solving problems related to: Compromising a security system.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/210		
12	123-126	
		Solving problems related to:
		Electronic data fingerprinting.
13.	159,160,194-196,400,516,	
	523,524	
		Secure processors.
14.	161-166,517	
		Solving problems related to:
		Video controllers.
15.	167-172,175,176,518,519	Cata
		Solving problems related to:
		Network communications.
16.	173,174,520	Solving
		Solving problems related to: CD-ROM controllers.
17.	477 477 7	CO-NOM controllers.
17.	177,178,521	Solving problems related to:
		Set-top controllers.
18.	179-185.522	
	179-105,322	Solving problems related to:
		Sectronic games.
19.	186-193	
		Solving problems related to:
		Multimedia communications.
20.	198,526	Cabella
		Solving problems related to:
21.	445	Detection of power supply interruption.
	145,146	Solving problems related to:
		Bilmap data structures.
22_	211,212	adouting2.
		Solving problems related to:
		Modular control structures.
23.	229.230	
		Solving problems related to:
24.		Billing and budgeting.
47.	245,248,253,254,341,	Solving problems and the control of
	350-353,360-362	Solving problems related to:
25.	27 29 247 252 -	Protected processing operations.
	27,28,247-252,513-515	Solving problems related to:
		Secure database management.
26.	263 264	
		Solving problems related to:
	•	Secure electronic mail.
27.	269-272	
	•	Solving problems related to:
	(Controlling a robot.

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ATOM CONTINUES -	International Application No. PCT/US		
ATION CONTINUED FROM	PCT/ISA/210		
284-293,482-486	Solving problems related to: Business automation.		
319,321-340	Solving problems related to: Softwere construction.		
320,369,380	Solving problems related to: Resource management.		
354-359,365-368	Solving problems related to: Combining or modifying data.		
397	Solving problems related to: Point of sale systems.		
398,399,490-493,498,499			
403	Solving problems related to: Renting an appliance.		
255-258,281,386	Solving problems related to: Flights described in software.		
	284-293,482-486 319,321-340 320,369,380 354-359,365-368 397 398,399,490-493,498,499		

A concise analysis shows that the Special Technical Features of these 35 groups of claims, as determined by comparison with the features disclosed in either of documents D1 or D2, are not the same. A comparison of the objective problems related to these different groups of inventions, all seen in the light of the description and the drawings of the application, shows that these objective problems are all different and have no corresponding technical effect.

Consequently, the Special Technical Features of these different groups of Inventions are neither the same nor corresponding as defined in Rule 13.2 PCT, 2nd sentence, and therefore the requirement of Unity of Invention (Rule 13.1, 2 PCT) has not been fulfilled.

Finally, it should be noted that searching the additional subject-matter of any of the groups of claims 2-35 would have involved a considerable additional search effort.

Internati t App	dication No
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